

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please cancel Claims 4, 6, 7, 9-18, 22, 23 and 25-29.

1. (Currently amended) A method for preventing alpha particle radiation emissions from being emitted from radioactive material-containing waste material into an environment comprising:

forming a first admixture by admixing with the waste material a polymer selected from the group consisting of mineral oil, charcoal, activated carbon, and sulfur, with the waste material to encapsulate wherein the polymer encapsulates the radioactive material within the polymer wherein the polymer and prevents alpha particle radiation emissions from passing through the polymer.

admixing the first admixture with a shielding material selected from the group consisting of ceramic, enamel, concrete, and metal, wherein the first admixture is incorporated with the second admixture, and

forming the second admixture into a geometric shape selected from the group consisting of a spherical shape, and a cubic shape, wherein the radioactive material is radon, the polymer is added in an amount of about 0.1 to about 30 percent by weight based on the amount of waste material, and the ratio of the shielding material to polymer-waste material admixture is about 4 to 1.

2. (Original) The method of Claim 1, wherein the radioactive material is radon.

3. (Cancelled).

4. (Cancelled)

5. (Previously Amended) The method of Claim 1, further comprising applying a polymer sealant to an exterior of the chemical additive/waste material admixture to further prevent alpha particles from being emitted into the environment.

6. (Cancelled)

7. (Canceled)

8. (Currently Amended) The method of Claim ~~6~~ 1, wherein the amount of shielding material admixed with the chemical additive-waste material admixture is in a ratio of from about 2 to 1.

9-30 (Cancelled).